

47-52. (Canceled)

53. (Previously Presented) The receiver of claim 30, wherein estimates for the signal use a zero forcing function expressed as:

$$y_{ZF} = (A^H A)^{-1} A^H r, N_c Q \geq M,$$

where  $r$  is a received signal,  $A$  is defined as  $H\tilde{W}[\sqrt{\rho_1}C_1 \quad \sqrt{\rho_2}C_2 \quad \cdots \quad \sqrt{\rho_M}C_M]$ ,  $H$  is an estimate of the communications channel,  $N_c$  is a spreading gain,  $Q$  is a number of received antennas,  $M$  is a number of multiple users,  $\tilde{W}$  is a weighting vector,  $\sqrt{\rho_i}$  is an  $i$ -th power source, and  $C_i$  is an  $i$ -th spreading code.

### **REMARKS**

Reconsideration and allowance are respectfully requested in view of the following remarks.

Claims 1, 3, 6, 9-11, 14, 19-23, 30, 33, 34, 36-40, 42, 45, 46, and 53 remain in this application. Claims 2, 4, 5, 7, 8, 12, 13, 15-18, 24-29, 31, 32, 35, 41, 43, 44, 47-52 have been canceled.

Claim 28 was rejected under 35 U.S.C. § 103(a) as being unpatentable over Onggosanusi et al. in view of Liang et al. Claims 47-49 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Onggosanusi et al. in view of Das et al. Claims 50-52 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Onggosanusi et al. in view of Das et al and further in view of Liang et al. Claims 28 and 47-52 have been canceled.

The Examiner indicated that claims 1, 3, 6, 9-11, 14, 19-23, 30, 33, 34, 36-40, 42, 45, 46, and 53 were allowable.

Accordingly, request is made for reconsideration of the application and allowance of the claims as amended.

Respectfully submitted,

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